

HYPERNUMBERS AND OTHER EXOTIC STUFF



(1) MORE ON THE "ARITHMETICAL" SIDE

Introduction to Tropical Geometry - Diane Maclagan and Bernd Sturmfels

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https://www.youtube.com/watch?v=1_ZfvQ3o1Ac (friendly introduction)

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<https://en.wikipedia.org/wiki/LogSumExp>

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<https://arxiv.org/pdf/1302.4370.pdf> (one half of the tropical semiring)

Hyperfields for Tropical Geometry I. Hyperfields and dequantization - Oleg Viro

<https://arxiv.org/pdf/1006.3034.pdf> (see section "6. Tropical addition of complex numbers")

Supertropical quadratic forms II: Tropical trigonometry and applications -

Zur Izhakian, Manfred Knebusch and Louis Rowen -

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[326630264_Supertropical_Quadratic_forms_II_Tropical_Trigonometry_and_Applications](https://www.researchgate.net/publication/326630264_Supertropical_Quadratic_forms_II_Tropical_Trigonometry_and_Applications)

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Isodual Theory of Antimatter with applications to Antigravity, Grand Unification and Cosmology
<https://www.amazon.com/Isodual-Theory-Antimatter-applications-Antigravity/dp/1402045174> (book)
Studies on Santilli's Isonumber Theory - Arun S. Muktibodh
<http://www.santilli-foundation.org/docs/pdf2.pdf>
Elements of Hadronic Mechanics III Experimental verifications - R.M.Santilli
<http://www.santilli-foundation.org/docs/elements-hadronic-mechanics-iii.compressed.pdf>
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Matrix exponential - https://en.wikipedia.org/wiki/Matrix_exponential

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The complexity of circuit evaluation over the natural numbers - Pierre McKenzie and Klaus Wagner
<http://www.iro.umontreal.ca/~mckenzie/Dagstuhl02.pdf>

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A Noncommutative Version of the Natural Numbers - Tyler Foster - <https://arxiv.org/pdf/1003.2081.pdf>

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Structure of unital 3-fields - Steven Duplij and Wend Werner
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Alternative models of the real number line in physics - D. K. Ross
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How Much Mathematics Is “Hardwired” If Any at All - Rafael Núñez
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Fractions in transrational arithmetic - Jan A. Bregstra - <https://transmathematica.org/index.php/journal/article/view/19/23>

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(2) MORE ON THE "NUMERAL" SIDE

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